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 AUTH. NAME AUTHOR AFFILIATION  
 HAYNES, J. G. Arizona Nuclear Power Project (formerly Arizona Public Serv  
 RECIP. NAME RECIPIENT AFFILIATION  
 Document Control Branch (Document Control Desk)

SUBJECT: Special Rept 2-SR-87-012: on 870416, Containment Bldg  
 Atmosphere RU-1 declared inoperable due to ground  
 identified. Check for grounds conducted but no grounds found.  
 Functional test performed & monitor returned to operation.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Standardized plant. M. Davis, NRR: 1Cy.

05000529

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	REG-FILE 02	1 1	RES DEPY GI	1 1
	RGN5 FILE 01	1 1		
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
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NOTES:		1 1		

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## Arizona Nuclear Power Project

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192-00208-JGH/TRB/JEM  
May 15, 1987

NRC Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station  
Unit 2  
Docket No. STN 50-529 (License NPF-51)  
Special Report 2-SR-87-012  
File: 87-020-404

Dear Sirs:

Attached please find a Special Report 2-SR-87-012 prepared and submitted pursuant to Technical Specifications 3.3.3.1 and 6.9.2. This report discusses a Radiation Monitoring Unit inoperable for greater than 72 hours.

If you have any questions, please contact Tom Bradish, Compliance Supervisor at (602) 932-5300, Ext. 6936.

Very truly yours,

J. G. Haynes  
Vice President  
Nuclear Production

JGH/TRB/JEM/cld

### Attachment

cc: O. M. DeMichele (all w/a)  
E. E. Van Brunt, Jr.  
J. B. Martin  
R. P. Zimmerman  
R. C. Sorenson  
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PALO VERDE NUCLEAR GENERATING STATION

Radiation Monitoring Unit Inoperable for Greater Than 72 Hours

License No. NPF-51

Docket No. STN 50-529

Special Report No. 2-SR-87-012

This Special Report is being submitted pursuant to Technical Specification 3.3.3.1 ACTION 27 and Technical Specification 6.9.2 to report an event in which a process monitor, Containment Building Atmosphere RU-1, was inoperable for greater than 72 hours. The 72 hour limit for operability was exceeded at approximately 2347 MST on April 19, 1987. Pursuant to Technical Specification 3.3.3.1 ACTION 27 a moveable air monitor (RU-53) was placed in line to monitor the Containment Building atmosphere.

At approximately 2347 MST on April 16, 1987, Palo Verde Unit 2 was in Mode 3 (HOT STANDBY) when RU-1 was declared inoperable due to a ground being identified in RU-1. Troubleshooting in accordance with approved work control documents identified that pin H on jack J118 was bent and shorting to the connector shell at the same time it was making contact with the female pin on plug P118 and shorting to ground. The pin was straightened and a check for grounds was conducted. No grounds were found.

During retest of RU-1 (36ST-9SQ01), required to return the monitor to operable status, filter step alarms were being experienced approximately every 10 minutes. The work order was amended to troubleshoot and rework/replace components to correct the filter step alarms. Filter step alarms are initiated whenever the filter paper does not increment 3 inches at predetermined time intervals. To have the tape increment 3 inches a pulse of 2 seconds, 5 volts and approximately 20 milliamps is required. A phototransistor, which operates on a light pulse, is used to stop the tape from incrementing after it has traveled the prescribed 3 inches. This phototransistor was found to be malfunctioning. An integrated circuit chip (IC2) was also found to be malfunctioning. This circuit is used for failure indication. Both the IC2 and the phototransistor were replaced with new components.

Radiation Monitoring Monthly Functional Test (36ST-9SQ01) was performed satisfactorily and RU-1 was returned to operable status at 2238 MST on April 20, 1987. The monitor was unavailable for 3 days, 23 hours and 41 minutes.

6-1-1964

